

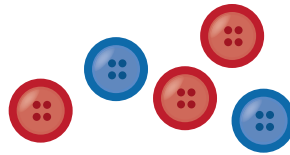
Key Concept and Vocabulary

A **ratio** is a comparison of two quantities.

3 red buttons to 2 blue buttons

3 red buttons : 2 blue buttons

The **value of the ratio** of red buttons to blue buttons is $\frac{3}{2}$.



Skill Examples

- Ratio of blue buttons to red buttons: 2 to 3, or 2 : 3
- Ratio of blue buttons to all buttons: 2 to 5, or 2 : 5
- Ratio of red buttons to all buttons: 3 to 5, or 3 : 5

Application Example

- Write the ratio of basketballs to soccer balls.
There are 4 basketballs.
There are 5 soccer balls.

So, the ratio of basketballs to soccer balls is 4 to 5, or 4 : 5.

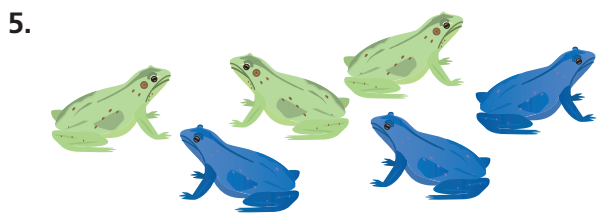


PRACTICE MAKES PURR-FECT®



Check your answers at BigIdeasMath.com.

Write the ratio of green objects to blue objects. Then find the value of the ratio.



3 to 3, or 3 : 3; 1



6 to 3, or 6 : 3; 2



4 to 2, or 4 : 2; 2



4 to 3, or 4 : 3; $\frac{4}{3}$

Write the ratio of blue objects to *all* objects. Then find the value of the ratio.

9. Frogs in Exercise 5 3 to 6, or 3 : 6; $\frac{1}{2}$

10. Balloons in Exercise 6 3 to 9, or 3 : 9; $\frac{1}{3}$

11. Cars in Exercise 7 2 to 6, or 2 : 6; $\frac{1}{3}$

12. Flowers in Exercise 8 3 to 7, or 3 : 7; $\frac{3}{7}$

13. **CLASS RATIO** The ratio of boys to girls in a class is 5 to 4. There are 12 girls in the class. How many boys are in the class? 15 boys